

Serial No.: 10/812,276  
Amdt. dated 21 February 2006  
Reply to Office Action of 16 November 2005

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Claim 1 (currently amended): An apparatus comprising:

a discone antenna including a cone-shaped element, ~~whose~~ the physical shape of which is at least partially defined by at least one pleat, wherein each pleat includes a vertex having an included angle of less than 180 degrees as directed away from ~~relative to~~ a principal axis of the cone-shaped element.

Claim 2 (original): The apparatus of claim 1 wherein the discone antenna includes a disc-shaped element whose physical shape is at least partially defined by a fractal geometry.

Claim 3 (original): The apparatus of claim 1 wherein the physical shape of the cone-shaped element includes a least one hole.

Claim 4 (original): The apparatus of claim 1 wherein the physical shape of the cone-shaped element is at least partially defined by a series of pleats that extend about a portion of the cone.

Claim 5 (currently amended): An apparatus comprising:

a bicone antenna including two cone-shaped elements, ~~whose~~ the physical shape of at least one of which is at least partially defined by at least one pleat, wherein each pleat includes a vertex having an included angle of less than 180 degrees as directed away from ~~relative to~~ a principal axis of the cone-shaped element.

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Claim 6 (original): The apparatus of claim 5 wherein the physical shape of one of the two cone-shaped elements is at least partially defined by at least one hole.

Claim 7 (original): The apparatus of claim 5 wherein the physical shape of one of the two cone-shaped elements is at least partially defined by a series of pleats that extend about a portion of the cone.

Claim 8 (currently amended): An apparatus comprising:

an antenna including a disc-shaped element, ~~whose~~ the physical shape of which is at least partially defined by a fractal geometry.

Claim 9 (original): The apparatus of claim 8 wherein the physical shape of the disc-shaped element is at least partially defined by a hole.